

PROJECT: Midnite Mine Remediation**REPORT NO:** 2021-21**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining

SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period Aug 13 – 19, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

SITE HEALTH, SAFETY, AND SECURITY

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period Aug 13 – 19, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	1
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: There was one serious event this week. A contract employee was witnessed walking through an exclusion zone under a running jaw crusher conveyor. The jaw crusher was being fed with a Cat 349 excavator at the time and the belt was loaded with 6.5 inch minus rock. During the preliminary investigation a heavily traveled pathway was found in this location as well as a piece of "tramp iron" (stray piece of steel) that had been picked from the jaw crusher conveyor belt onto the magnet belt, and dropped ~10 to the ground, ~6 inches from the travel path.			

COMMUNITY LIAISON

- Community notifications continue to be sent to Mr. Sherwood for site equipment deliveries and WTP Solids transport.
- Ford Corkscrew fire suspended one operating shift for Midnite Remedial Action and Water Treatment on the 16th and 17th.
- Spokesman Newspaper reporter to be re-scheduled for site visit of effluent line due to the Ford Corkscrew fire.

PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS

Weekly Progress Meeting:

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 18 August 2021;

- EPA
- Spokane Tribe of Indians
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- AJAX
- Stantec

Meeting Action Items:

- None.

EPA Plan/Document Approvals:

- None.

Regulatory Site Visit(s):

- None.

REMEDIAL WORK ACTIVITIES

Construction:

During the week of Aug 13 – 19, 2021, the following activities were conducted:

- Work was suspended at Site at approximately 3:00 PM on 13 August due to poor air quality. The Washington Air Quality Advisory (WAQA) level exceeded 300. Dayshift was cancelled on 16 Aug due to the Ford Corkscrew fire. Haul operations were suspended in the afternoon on 17 Aug due to unsafe conditions resulting from a rain event (see SWPPP section below).
- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP). Newmont placed these materials in the Pit 4 Waste Containment Area (WCA).
- SLV Earthmovers continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Newmont halted crushing and screening materials to reevaluate SLV's safety program, reestablish exclusion zones, and update SLVs fall protection plan. Re-start criteria given to SLV with a reinspection on 23 August.
- Collection of Quality Control samples from the crushing and screening operation continued with samples of Drain Gravel and Geomembrane Bedding Material submitted to Budinger and Associates for gradation analysis.
- Newmont completed adding WTP effluent water to the east cell of the South Pond and began transferring water from the east cell to the west cell of the pond. These activities were performed in preparation for the leak location survey by Hydrogeophysics, Inc that is scheduled for 24 Aug.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 13 August. Visible dust from the crushing operation conformed with project requirements.
- Stantec performed South Pond embankment stability inspection on 13 August. The embankment remains stable and the water level in the South Pond piezometer remains below the action level.
- Halme Construction resumed Effluent Pipeline construction activities. Work activities included:
 - Continued fusing pipeline down Blue Creek Road.

Table 1 – 2021 Production Estimates

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	17,919	35,140	196%	455,295	783,216	172%	103%

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd ³)	Estimated Volume ¹ (yd ³)	% of Planned	Planned Production (yd ³)	Estimated Volume ¹ (yd ³)	% of Planned	
HSWRP	1,889	0	0%	37,979	2,828	7%	4%
Pit 4 Overburden	14,700	0	0%	212,380	321,748	151%	96%
CSZ Cleanup	417	0	0%	2,833	28,700	1013%	574%
Total	34,925	35,140	101%	708,487	1,136,492	160%	98%
Aggregate Production							
Drain Gravel	8,500	3,825	45%	175,100	139,948	80%	46%
Liner Bedding	0	0	--	9,250	9,414	102%	102%
Geomembrane Bedding	8,500	3,607	42%	175,100	141,212	81%	37%
Total	17,000	7,432	44%	359,450	290,574	81%	42%

1 - Truck load assumed to be 27 yd³

Stormwater Pollution Prevention Plan (SWPPP)

- 1.00" of precipitation was recorded at Site on 17 Aug. A Stantec Certified Erosion and Sediment Control Lead (CESCL) performed the post storm event inspection on 18 Aug. Erosion and sediment control Best Management Practices (BMPs) performed as intended.

Spill Prevention, Control, and Countermeasure Activities (SPCC)

- No reportable spills.

Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- Halme Construction mobilized a UTV.

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

Materials:

The following material was delivered to the Site during this reporting period.

- 900 feet of 30" ADS N-12 Pipe.

CONSTRUCTION QUALITY ASSURANCE

Dust Control and Monitoring

All eight dust monitors were effectively turned off during this time-period due to smoke from the local Ford-Corkscrew fire. Monitor locations and operating time-periods are as shown in Table 2 below. Water trucks were used for dust suppression as needed for all mine site and effluent pipeline construction activities.

Bison Engineering was on site Thursday (8/19/2021) to conduct monthly dust monitor calibrations and install a new cradle-point for the system's base station datalogger.

Table 2 - TSP Dust Monitoring Locations during reporting period Aug 13 – 19, 2021

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	E			E	E	E/N	E
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	E			E	E	E/N	E
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	E			E	E	E/N	E
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	E			E	E	E/N	E
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	E			E	E	E/N	E
ES-6 (roving)	East of HSWRP above High Road	03/23/21	E			E	E	E/N	E
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	E			E	E	E/N	E
ES-8 (stationary)	NAR ~Station 14+00	06/29/21	E			E	E	E/N	E
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke , pollen, heavy rain, etc.) O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title	CQC-CQA Issue Date	
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date
2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment Mine Site Summary Memo for the South Pond Dewatering Well & Piezometer sent to EPA on 7/18/2021 Received Additional Questions/Comments from the EPA on 8/9/2021 Stantec responses sent to EPA 8/20/2021.	3/19/2021	Conditional EPA Approval Received on 5/11/2021 Final EPA Approval TBD
Notice of Non-Compliance			
NNC No. and Dates	Title/Description	CQA	CQA/EPA Response Date(s)
None			

Project RFIs			
RFI No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
HC-2021-06	NAR Lead-Off Crossing and Pipeline Alignment Adjustment Effluent Pipeline Design Engineer's Response Received 6/29/2021 EPA Comments Received 7/14/2021 Stantec Responses Sent to EPA on 8/11/2021	6/17/2021	CQA – 7/1/2021 EPA - TBD
HC-2021-10	Trench Backfill in Open Areas – Moisture Allowance Effluent Pipeline	8/3/2021	CQA – 8/11/2021 EPA - TBD
Submittals			
Submittal No.	Title	CQC Submittal Date	CQA/EPA Response Date(s)
02272-15	South Pond Geomembrane – 2021 Liner Repairs Mine Site	6/21/2021	CQA – 7/22/2021 EPA - TBD
02272-16	South Pond Liner Repair Data for June 8 through July 1, 2021 Mine Site	7/7/2021	CQA – 7-22-2021 EPA - TBD
02272-17	South Pond Liner Repair Data for July 16, 2021 Mine Site	7/27/2021	CQA – 8/1/2021 EPA - TBD
HC-02200-06	Pace Analytics Report on Lincoln Sand and Gravel's Pipe Bedding Material (Radiological Test Results) Effluent Pipeline	8/4/2021	CQA – 8/11/2021 EPA - TBD
HC-02200-07	Daily Density Test Reports (Aug. 8 through Aug. 14, 2021) Effluent Pipeline	8/18/2021	CQA – TBD EPA - TBD
Other Items			
Date	Title	Comments	
8/13/2021	Quarterly Monitoring Report No. 17 – Second Quarter 2021	EPA - TBD	

Copies of the CQA Logs are being updated and will be located on the project SharePoint site under the 2021 CQA Folder.

Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

Preparatory Inspections / Meetings

- None

Initial Phase Inspections

- None

Follow-up Phase and Ongoing Inspections

- Mine Waste Placement in Pit 4 – Low activity/low reactivity material from the SWRP, Middle Overburden Pile - no restrictions on placement.

- Tracking Dust Monitoring System
- Effluent Pipeline – BMPs, Density Testing/Backfill Reports and Pipe Welding/Datalogger Reports
- Material Deliveries
- South Pond Liner Leak Investigation and Repairs
- Equipment Mobilization Inspections

Completion Inspections

- None

THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:
<u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments <ul style="list-style-type: none">• Attachment A – Midnite Mine 3 Week Lookahead Schedule
Photos of pertinent items are provided below.



Figure 1 – Smoky site conditions on 13 Aug 2021 looking east from the field offices



Figure 2 – Overview of Pit 4 – looking south



Figure 3 – Excavation, loading and hauling of low activity/low reactivity material from the SWRP, loadout 1 view looking north.



Figure 4 – Excavation, loading and hauling of low activity/low reactivity material from the SWRP, loadout 2 view looking north.



Figure 5 – Crushing and screening operations at the HSWRP view looking west during rain event.



Figure 6 – Halme Construction fusing pipe along Blue Creek Road

ATTACHMENT A

MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE

Activity ID	Activity Name	RD	% Complete	Start	Finish																												
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr
17. Excavation and placement of materials into Pit #4		50d		29-Mar-21 A	29-Oct-21																												
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit#	50d	73%	29-Mar-21 A	29-Oct-21																												
18. Complete Repair of South Pond		10d		23-Apr-21 A	02-Sep-21																												
18-1040	Support South Pond Pumping Station Construction and Commisio	10d	70%	23-Apr-21 A	02-Sep-21																												
18-1150	Commission the South Pond	10d	50%	09-Jul-21 A	02-Sep-21																												
19. Initiate (b) (6) Borrow Area Development		10d		13-Sep-21	24-Sep-21																												
19-1060	Construct monitoring wells in (b) (6) Borrow (Sep)	10d	0%	13-Sep-21*	24-Sep-21																												
20. Haul and place Cover material over the Pit#4 WCA		87d		29-Mar-21 A	23-May-22																												
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	82d	4%	29-Mar-21 A	16-May-22																												
20-1060	Produce Geomembrane Bedding for Pit#4	82d	37%	29-Mar-21 A	16-May-22																												
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	87d	37%	29-Mar-21 A	23-May-22																												
23. Reclaim disturbed Portion of the (b) (6) Borrow Area		30d		06-Aug-21 A	01-Oct-21																												
23-1000	Contract seed collection from (b) (6) Borrow	30d	5%	06-Aug-21 A	01-Oct-21																												
26. Construct the new WTP and Pipeline for discharge		50d		07-Jun-21 A	29-Oct-21																												
26-3070	Erosion Control BMP's & Site Controls	0d	50%	07-Jun-21 A	20-Aug-21																												
26-3090	Material Staging & Pipe Fusing	15d	50%	07-Jun-21 A	10-Sep-21																												
26-3080	Clearing & Grubbing	50d	70%	18-Jun-21 A	29-Oct-21																												
26-3120	Install MH at STA 34+55	6d	80%	15-Jul-21 A	27-Aug-21																												
26-3130	Progress to STA 50+00	24d	50%	26-Jul-21 A	23-Sep-21																												
26-3140	Progress to STA 66+00	30d	45%	29-Jul-21 A	01-Oct-21																												
26-3150	Progress to STA 86+00	34d	20%	04-Aug-21 A	07-Oct-21																												
26-3160	Progress to STA 106+00	39d	0%	20-Aug-21	14-Oct-21																												
26-1740	Develop WTP Construction Work Plans for Approval	30d	0%	09-Sep-21	20-Oct-21																												
27. Produce drain rock and other materials necessary for the sub-waste liner		87d		29-Mar-21 A	23-May-22																												
27-1000	Produce Drain Gravel for Pit 3	87d	59%	29-Mar-21 A	23-May-22																												
27-1030	Haul Drain Gravel, Stockpile (301k cy)	87d	59%	29-Mar-21 A	23-May-22																												
28. Initiate construct of the Pit#3 sump including initial construction of under		54d		06-Jul-21 A	06-Apr-22																												
28-1180	Install Pit 3 dewatering system to transfer water to South Pond (1,000 GPM)	10d	90%	06-Jul-21 A	02-Sep-21																												
28-1140	Install pumps and generators	4d	0%	20-Aug-21	25-Aug-21																												
28-1190	Route Pit #4 temporary dewatering line to South Pond	10d	0%	20-Aug-21	02-Sep-21																												

Activity ID	Activity Name	RD	% Complete	Start	Finish	Aug 15							Aug 22							Aug 29							Sep 05							Sep 12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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28-1160	Route PCP, Blood Pool, from Pit #3 to South Pond	5d	0%	27-Aug-21	02-Sep-21																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													</